

## EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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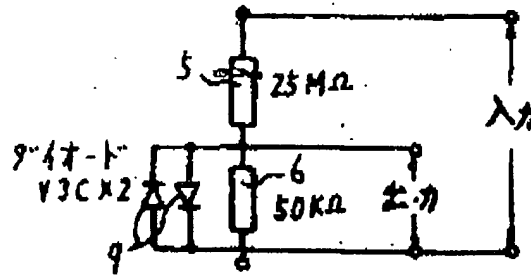
APPLICATION DATE : 06-08-80  
APPLICATION NUMBER : 55107132

APPLICANT : HITACHI LTD;

INVENTOR : TAKAHASHI GENJI;

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TITLE : VOLTAGE DIVIDER FOR HIGH  
VOLTAGE



ABSTRACT : PURPOSE: To limit output voltage to prevent the saturation of a measuring device, and to make accurate measurement of arc voltage by connecting a semiconductor diode in reverse-parallel to the output circuit of a voltage divider.

CONSTITUTION: Diodes 9 are connected in reverse-parallel across a resistance 6 which is the output side of a voltage divider consisting of a high resistance 5 and a resistance 6 for measurement. By forming the voltage divider in this way, the voltage generated across the resistance 6 is limited by a constant value despite any increase in the input of arc voltage, and the voltage above this is not outputted. Hence, the saturation of a measuring device, for example, oscilloscope connected across the resistance is prevented and the arc voltage is measured accurately.

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